UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579,217	05/12/2006	Masaki Fukumori	Q94802	1178
23373 SUGHRUE MI	7590 02/10/200 ON, PLLC	EXAMINER		
2100 PENNSY	LVANIA AVENUE, N	NGUYEN, VU ANH		
SUITE 800 WASHINGTOI	N, DC 20037		ART UNIT	PAPER NUMBER
			1796	
			MAIL DATE	DELIVERY MODE
			02/10/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
		10/579,217	FUKUMORI ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Vu Nguyen	1796			
Period fo	The MAILING DATE of this communication ap or Reply	opears on the cover sheet with the	correspondence address			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLEMENTED IN CHEVER IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statuted the provided by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tid d will apply and will expire SIX (6) MONTHS fron the, cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 14.	January 2009				
'=		is action is non-final.				
3)	<b>,—</b>		osecution as to the merits is			
٠,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4)⊠	Claim(s) 1-5,7 and 8 is/are pending in the ap	plication.				
-	4a) Of the above claim(s) is/are withdr	-				
	Claim(s) is/are allowed.					
· —	Claim(s) <u>1-5 and 7-8</u> is/are rejected.					
· ·	Claim(s) is/are objected to.					
-	Claim(s) are subject to restriction and/	or election requirement.				
	on Papers	·				
•	The specification is objected to by the Examir		Eveninen			
10)	The drawing(s) filed on is/are: a) ac					
	Applicant may not request that any objection to the					
44)□	Replacement drawing sheet(s) including the corre	•	•			
11)	The oath or declaration is objected to by the E	Examiner. Note the attached Office	e Action or form PTO-152.			
Priority ι	ınder 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2) Notice (3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal C 6) Other:	oate			

Application/Control Number: 10/579,217 Page 2

Art Unit: 1796

### **DETAILED ACTION**

## Response to Amendment

1. Acknowledgement is made of applicant's amendment, filed 01/14/2009, to the claims, wherein claims 1 and 8 have been amended and claim 6 has been cancelled. Claims 1-5 and 7-8 are pending in this application.

# Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-5 and 7-8 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Oharu et al. (JP 2001-107031 A). (See attached English Translation).
- 5. Regarding the limitations set forth in these claims, Oharu et al. (Oharu, hereafter) teaches an aqueous water- and oil-repellent dispersion [0001] comprising, in one embodiment, (A) a copolymer comprising perfluoroalkyl ethyl acrylate, dioctyl maleate

Application/Control Number: 10/579,217

Art Unit: 1796

and acrylamide, and (B) four nonionic surfactants: 4.8 g of one with HLB value of 4, 2.4 g of one with HLB value of 7.95, 8.4 g of one with HLB value of 16.2, and 2.4 g of one with HLB value of 17 [0062]. Corresponding to the ratio recited in claim 1, the amounts of surfactants disclosed by Oharu is (HLB less than 12 : HLB from 12 to less than 17 : HLB of 17 or greater) = 40 : 47 : 13. The surfactants are employed during the emulsion polymerization of the fluorine-containing copolymer. The prior art also teaches the material of claim 17 and the method of claim 18 [0060 & 0066].

Page 3

6. Clearly, the essential difference between the claimed invention and the teachings of the prior art is the slight difference in the ratios of the surfactants:

HLB value:	less than 12	from 12 to less than 17	17 and above
Claimed ratio:	(20-40)	(50-70)	(10-20)
Prior art ratio:	40	47	13

7. Clearly, 47 is very close to the claimed range of 50-70 and, absent any evidence in the contrary, one of ordinary skill in the art would expect that modifying the range taught by the prior art so that it falls in the claimed range (i.e., changing the 47 to within the 50-70 range) would not significantly alter the properties of the final dispersion. Since the PTO does not have proper means to conduct experiments to show if such modification would result in any significant changes to the properties of the dispersion, the burden of proof is now shifted to the applicants to provide evidence of unexpected results. See MPEP § 2112 (I-V).

Application/Control Number: 10/579,217 Page 4

Art Unit: 1796

## Response to Arguments

8. Applicant's arguments filed 01/14/2009 have been fully considered but they are not persuasive. Essentially, applicant alleges that the dispersion of the prior art, for having a surfactant ratio outside the claimed range (above), "cannot achieve the excellent storage stability and dilution ability of the present invention." (Remarks, p. 6). Such claim of unexpected results is mere allegation and unsubstantiated because (1) the applicant fails to provide any evidence and (2) the specification does not provide any comparative dispersion commensurate in scope with the dispersion of the prior art.

#### Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

**Contact Information** 

Page 5

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Vu Nguyen whose telephone number is (571)270-5454.

The examiner can normally be reached on M-F 7:30-5:00 (Alternating Friday Off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, David Wu can be reached on 571-272-1114. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Vu Nguyen Examiner Art Unit 1796

/David Wu/

Supervisory Patent Examiner, Art Unit 1796